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DIALOG(R) File 351:Derwent WPI  
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013408560      \*\*Image available\*\*  
WPI Acc No: 2000-580498/\*200055\*  
XRPX Acc No: N00-429663

**Device for mixing water and concentrate for haemodialysis has a solution bag containing a saturated medicinal concentrate**

Patent Assignee: FEDERAL MEDICAL CO LTD (MEDI-N); HO K H (HOKH-I)  
Number of Countries: 001    Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 20008860	U1	20000817	DE 2000U2008860	U	20000517	200055 B

Priority Applications (No Type Date): DE 2000U2008860 U 20000517

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 20008860	U1	16	A61M-001/14	

Abstract (Basic): \*DE 20008860\* U1

NOVELTY - Device for mixing water and concentrate has at least one solution bag (1) containing a saturated medicinal concentrate (2). One tube (3) between the reverse osmosis (RO) water and the solvent bag (1) is connected to the outlet (51) of the RO water outlet of the dialysis machine (5) and is used to feed RO water into the solvent bag (1) to dissolve the crystallized concentrate (2) to produce saturated A or B dialyzate. Another tube (4) joins the solvent bag (1) and a suction pipe (52 or 53) of the A dialyzate (or B dialyzate) of the dialysis machine (5), which is then mixed with the RO water and this mixture is fed into the dialysis machine (5).

DETAILED DESCRIPTION - Preferred Features: The concentrate (2) comprises medicinal products in a suitable mixing ratio. Small quantities are mixed with RO water to produce high concentrations of A dialyzate (or B dialyzate) for the blood purification process and each unit comprises the same constituents in the same ratio. Water is removed from the solution by drying to form a saturated crystallized concentrate (2).

USE - For haemodialysis.

ADVANTAGE - Bacterial contamination is prevented, the quality of hemodialysis is improved, and running costs are low

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of the device.

solution bag (1)  
concentrate (2)  
tubes (3, 4)  
dialysis machine (5)  
outlet (51)  
suction pipe (52, 53)  
pp; 16 DwgNo 1/5

Title Terms: DEVICE; MIX; WATER; CONCENTRATE; HAEMODIALYSIS; SOLUTION; BAG;  
CONTAIN; SATURATE; MEDICINE; CONCENTRATE

Derwent Class: P34

International Patent Class (Main): A61M-001/14

File Segment: EngPI

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DIALOG(R)File 351:Derwent WPI

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WPI Acc No: 1988-229065/198833

XRAM Acc No: C88-102291

XRPX Acc No: N88-1/4301

**System for preparing soln. for medical use - by dissolving powder in liquid to form conc. soln. subsequently further diluted**

Patent Assignee: GAMBRO AB (GAMB )

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KNUTSSON S L; TRYGGVASON R; CARLSSON P O A; JONSSON D; JONSSON S A;

JONSSON U L P

Number of Countries: 016 Number of Patents: 015

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 278100	A	19880817	EP 87118987	A	19871221	198833	B
AU 8811347	A	19880811				198839	
SE 8700461	A	19880807				198839	
SE 8702234	A	19880807				198839	
BR 8800184	A	19880920				198842	
BR 8800439	A	19880920				198842	
US 4784495	A	19881115	US 87130879	A	19871210	198848	
CA 1286284	C	19910716				199133	
ES 2023079	A	19920101				199206	
SE 467142	B	19920601	SE 872234	A	19870527	199225	
EP 278100	B1	19920715	EP 87118987	A	19871221	199229	
DE 3780440	G	19920820	DE 3780440	A	19871221	199235	
			EP 87118987	A	19871221		
ES 2023079	T3	19931201	EP 87118987	A	19871221	199401	
KR 9508519	B1	19950731	KR 881162	A	19880206	199718	
DE 8718135	U1	19970430	DE 87U18135	U	19871221	199723	
			EP 87118987	A	19871221		

Priority Applications (No Type Date): SE 873626 A 19870918; SE 87461 A 19870206; SE 872234 A 19870527; SE 873120 A 19870811

Cited Patents: 2.Jnl.Ref; A3...8950; EP 160272; No-SR.Pub; US 3560380; US 3560389

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 278100 A E 25

Designated States (Regional): AT BE CH DE ES FR GB IT LI NL

US 4784495 A 23

EP 278100 B1 E 38 A61M-001/16

Designated States (Regional): AT BE CH DE ES FR GB IT LI NL

DE 3780440 G A61M-001/16 Based on patent EP 278100

ES 2023079 T3 A61M-001/16 Based on patent EP 278100

DE 8718135 U1 38 A61K-033/14 application EP 87118987

SE 467142 B B01F-001/00

KR 9508519 B1 A61M-001/14

Abstract (Basic): EP 278100 A

Medical fluid is prepd. by mixing a powdered concentrate with water. The system for mixing includes a vessel contg. the concentrate and a first fluid conduit having a first end communicating with a

source of water and a second end delivering the prepd. soln. A second conduit has a first end also communicating with the water source and a second end connected to the inlet of the vessel holding the concentrate to introduce water into the powder to produce a concentrate of dissolved powder in water.

A third conduit is connected to the outlet of the vessel and to a midpoint in the first conduit for introducing the concentrate into the flowing water. A measuring device in the first conduit downstream of the midpoint measures the compsn. of the prepd. soln. and this is used to control a flow regulator in the third conduit for controlling the flow of concentrate from the vessel.

USE/ADVANTAGE - System is used to prepare a fluid for medical use, esp. for haemodialysis, but also possibly haemofiltration and haemodiafiltration. The system minimises pptn. problems and risk of bacterial growth.

Title Terms: SYSTEM; PREPARATION; SOLUTION; MEDICAL; DISSOLVE; POWDER;  
LIQUID; FORM; CONCENTRATE; SOLUTION; SUBSEQUENT; DILUTE

Derwent Class: J01; P34

International Patent Class (Main): A61K-033/14; A61M-001/14; A61M-001/16;  
B01F-001/00

International Patent Class (Additional): A61K-009/08; A61K-033/06;  
A61M-001/34; A61M-005/00; A61M-005/31; B01D-013/00; B01F-003/12;  
B01F-015/04; B01J-008/02; B31B-025/00; G05D-011/13

File Segment: CPI; EngPI